

```
10
ring nodes :
    1 2 3 4 5 6 7 8 9
chain bonds :
    1-10
ring bonds :
    1-2 1-7 2-3 3-4 3-5 4-8 5-6 6-9 7-8 8-9
exact/norm bonds :
    1-2 1-7 1-10 2-3 3-4 3-5 4-8 5-6 6-9 7-8 8-9
isolated ring systems :
    containing 1 :
Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
```

Welcome to STN International! Enter x:x

LOGINID:ssspta1611hxl

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
* * * * * * * * *
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                 Web Page URLs for STN Seminar Schedule - N. America
NEWS
      2 Apr 08
                 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09
                 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4
         Apr 09
                 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS
      6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 7
         Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8
NEWS 9
         Apr 22 Federal Research in Progress (FEDRIP) now available
         Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10
                PCTFULL has been reloaded
NEWS 12
        Jul 02
                FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
                 saved answer sets no longer valid
NEWS 14
         Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15
         Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25
         Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
              CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
              AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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FILE 'HOME' ENTERED AT 11:35:52 ON 22 SEP 2002

=> fil reg COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:36:00 ON 22 SEP 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 SEP 2002 HIGHEST RN 453593-49-2 DICTIONARY FILE UPDATES: 20 SEP 2002 HIGHEST RN 453593-49-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\STNEXP4\QUERIES\09864905.str

L1 STRUCTURE UPLOADED

=> que L1

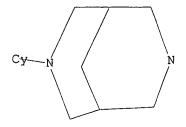
L2 QUE L1

=> d 11

L1 HAS NO ANSWERS

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 11:36:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9550 TO ITERATE

10.5% PROCESSED

1000 ITERATIONS

6 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:

ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

185150 TO 196850

PROJECTED ANSWERS:

692 TO 1600

L3

6 SEA SSS SAM L1

=> d scan

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN Benzamide, 3-[(4-fluorobenzoyl)amino]-N-phenyl-N-2-propenyl-4-(1,5,6,8-tetrahydro-8-oxo-1,5-methano-2H-pyrido[1,2-a][1,5]diazocin-3(4H)-yl)-(9CI)

MF C34 H31 F N4 O3

$$\begin{array}{c|c} Ph & O \\ & \parallel & \parallel \\ & NH-C \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN Benzamide, 4-fluoro-N-[5-[[4-(2-methoxyphenyl)-1-piperazinyl]carbonyl]-2-

(1,5,6,8-tetrahydro-8-oxo-1,5-methano-2H-pyrido[1,2-a][1,5]diazocin-3(4H)yl)phenyl]- (9CI) MF C36 H36 F N5 O4

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 ANSWERS REGISTRY COPYRIGHT 2002 ACS L3

ΙN Benzamide,

3-[(2-bromo-5-methoxybenzoyl)amino]-N-ethyl-N-(3-methylphenyl)- 4-(1,5,6,8-tetrahydro-8-oxo-1,5-methano-2H-pyrido[1,2-a][1,5]diazocin-3(4H)-yl)- (9CI) C35 H35 Br N4 O4

MF

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS

IN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-chloro-5-ethynyl-3-pyridinyl)- (9CI)

MF C14 H16 C1 N3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 6 ANSWERS REGISTRY COPYRIGHT 2002 ACS

1-Piperidinecarboxylic acid,

4-[[3-[[4-(1,1-dimethylethyl)benzoyl]amino]-4-

(octahydro-8-oxo-1,5-methano-2H-pyrido[1,2-a][1,5]diazocin-3(4H)-

yl)benzoyl]amino]-, ethyl ester (9CI)

MF C37 H49 N5 O5

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\STNEXP4\QUERIES\09864905.str

L4 STRUCTURE UPLOADED

=> que L4

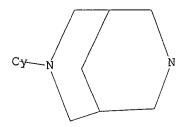
L5 QUE L4

=> d 14

L4 HAS NO ANSWERS

L4

STR



Page 7 09864905.trn

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 11:38:54 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 283 TO ITERATE

100.0% PROCESSED 283 ITERATIONS 5 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: PROJECTED ANSWERS:

4651 TO 6669 5 TO 234

5 SEA SSS SAM L4

=> s 16 ful

L6

FULL SEARCH INITIATED 11:39:02 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 5707 TO ITERATE

5707 ITERATIONS 100.0% PROCESSED

100 ANSWERS

SEARCH TIME: 00.00.01

100 SEA SSS FUL L4

=> fil caplus

COST IN U.S. DOLLARS

TOTAL SINCE FILE

FULL ESTIMATED COST

ENTRY SESSION 141.80 142.01

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=> s 17 L8 28 L7

=> d ibib abs hitstr 1-YOU HAVE REQUESTED DATA FROM 28 ANSWERS - CONTINUE? Y/(N):y

ANSWER 1 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:51458 CAPLUS

DOCUMENT NUMBER:

136:118479

TITLE:

Preparation of new bispidine compounds for the

treatment of cardiac arrhythmias

INVENTOR(S):

Andersson, Kjell; Bjoere, Annika; Bjoersne, Magnus; Ponten, Fritiof; Strandlund, Gert; Svensson, Peder;

Tottie, Louise

PATENT ASSIGNEE(S):

Astrazeneca AB, Swed.

PCT Int. Appl., 110 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.			KIND DATE				A	PPLI	CATI	ON NO	э.	DATE				
WO 2002	WO 2002004446			A1 20020117			W	0 20	01-S	E154	- – 4	2001				
W:	AE, AG	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
	CO, CR	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
	GM, HR	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
	LS, LT	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PL,	PT,	
	RO, RU	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	
	UZ, VN	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	MT			
RW:	GH, GM	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
	DE, DK	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
	BJ, CF	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
AU 2001071161 A5 20020121 AU							U 20	01-7	1161		2001	0704				
PRIORITY APPLN. INFO.:							SE 2000-2603					2000	0707			
	SE 2000-2788									Α	2000	0727				
WO 2001-SE1544									4 4	W	2001	0704				
OMILED COURCE (C). MARDAM 126 110470																

OTHER SOURCE(S):

MARPAT 136:118479

GΙ

AB The title compds. [I; R1 = ACR4R5BR6 (wherein R4 = H, halo, alkyl, etc.; or R4, together with R5, = O; R5 = H, alkyl,; A = a bond, alkylene, etc.; B = a bond, alkylene, etc.; R6 = (un)substituted aryl, 5-12 membered heterocyclyl contg. one or more heteroatoms selected from O, N and/or S); R2 = CN, (un)substituted 5-12 membered heterocyclyl contg. one or more heteroatoms selected from O, N and/or S, etc.; R3a, R3b = H, alkyl, etc.; or R3a and R3b together = alkylene, O(alkylene)O, etc.; R41-R46 = H, alkyl] which are useful in the prophylaxis and in the treatment of arrhythmias, in particular atrial and ventricular arrhythmias, were prepd.

E.g., a 3-step synthesis of II was given. The exemplified compds. I showed pIC50 of at least 5.5 in glucocorticoid-treated mouse fibroblasts as a model to detect blockers of the delayed rectifier. K current.

IT 389885-68-1P 389885-69-2P 389886-19-5P 389886-27-5P 389886-28-6P 389886-29-7P 389886-44-6P 389886-54-8P 389886-70-8P

389886-88-8P 389886-89-9P 389886-90-2P 389886-91-3P 389887-29-0P 389887-30-3P

389887-66-5P 389887-67-6P 389887-68-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of new bispidine compds. for the treatment of cardiac arrhythmias)

RN 389885-68-1 CAPLUS

CN Benzonitrile, 4-[3-[7-(2-ethyl-2H-tetrazol-5-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]-2-hydroxypropoxy]- (9CI) (CA INDEX NAME)

NC OH OH
$$N - CH_2 - CH_2 - N$$
 $N - Et$

RN 389885-69-2 CAPLUS

CN Benzonitrile,

4-[2-hydroxy-3-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \text{OH} \\ \hline \\ \text{O-CH}_2\text{-CH-CH}_2\text{--N} \\ \hline \\ \text{N} \end{array}$$

RN 389886-19-5 CAPLUS

CN Benzonitrile, 4-[2-hydroxy-3-[7-[2-(1-methylethyl)-2H-tetrazol-5-yl]-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]- (9CI) (CA INDEX NAME)

RN 389886-27-5 CAPLUS

CN Benzonitrile, 4-[2-hydroxy-3-[7-(1-phenyl-1H-tetrazol-5-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]- (9CI) (CA INDEX NAME)

RN 389886-28-6 CAPLUS

CN Benzonitrile, 4-[2-hydroxy-3-[7-(1-methyl-1H-tetrazol-5-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]- (9CI) (CA INDEX NAME)

RN 389886-29-7 CAPLUS

CN Benzonitrile, 4-[2-hydroxy-3-[7-(2-methyl-2H-tetrazol-5-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]- (9CI) (CA INDEX NAME)

RN 389886-44-6 CAPLUS

CN Benzonitrile, 4-[3-[7-(5-amino-1H-1,2,4-triazol-3-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]-2-hydroxypropoxy]- (9CI) (CA INDEX NAME)

RN 389886-54-8 CAPLUS

CN Benzonitrile,

4-[2-hydroxy-3-[7-(1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxo-4-pyrimidinyl)-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]- (9CI) (CA INDEX NAME)

RN 389886-70-8 CAPLUS

CN Benzonitrile, 4-[3-[7-(4-amino-6,7-dimethoxy-2-quinazolinyl)-3,7-diazabicyclo[3.3.1]non-3-yl]-2-hydroxypropoxy]- (9CI) (CA INDEX NAME)

RN 389886-88-8 CAPLUS

CN Benzonitrile, 4-[2-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]ethoxy]- (9CI) (CA INDEX NAME)

RN 389886-89-9 CAPLUS

CN Benzonitrile, 4-[1-(3,4-dimethoxyphenoxy)-4-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]butyl]- (9CI) (CA INDEX NAME)

RN 389886-90-2 CAPLUS

CN Benzonitrile, 4-[[3-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]propyl]sulfonyl]- (9CI) (CA INDEX NAME)

RN 389886-91-3 CAPLUS

CN Benzamide, 4-cyano-N-[3-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]propyl]- (9CI) (CA INDEX NAME)

RN 389887-29-0 CAPLUS

CN Benzonitrile, 4-[[3-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]propyl]amino]- (9CI) (CA INDEX NAME)

RN 389887-30-3 CAPLUS
CN Benzenesulfonamide, 4-[2-hydroxy-3-[7-(2-thiazoly1)-3,7-diazabicyclo[3.3.1]non-3-yl]propoxy]-N,N-dimethyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & O & O \\ He_2N-S & O & O \\ O & O-CH_2-CH-CH_2-N \\ O & O-$$

RN 389887-66-5 CAPLUS

CN Urea, N-[1-[(4-cyanophenoxy)methyl]-2-[7-(2-thiazolyl)-3,7-diazabicyclo[3.3.1]non-3-yl]ethyl]-N'-methyl- (9CI) (CA INDEX NAME)

RN 389887-67-6 CAPLUS

CN Benzonitrile,

4-[1-(3,4-dimethoxyphenoxy)-4-[7-(2-ethyl-2H-tetrazol-5-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]butyl]-(9CI) (CA INDEX NAME)

RN 389887-68-7 CAPLUS

CN Benzonitrile, 4-[[3-[7-(2-ethyl-2H-tetrazol-5-yl)-3,7-diazabicyclo[3.3.1]non-3-yl]propyl]amino]- (9CI) (CA INDEX NAME)

IT 389887-70-1P 389887-71-2P 389887-72-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of new bispidine compds. for the treatment of cardiac arrhythmias)

RN 389887-70-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(phenylmethyl)-7-(1H-tetrazol-5-yl)-, ammonium salt (9CI) (CA INDEX NAME)

● NH3

RN 389887-71-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(2-ethyl-2H-tetrazol-5-yl)-7-(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 389887-72-3 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(2-ethyl-2H-tetrazol-5-yl)- (9CI) (CA INDEX NAME)

Page 16 09864905.trn

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 2 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

2001:453062 CAPLUS 135:61360

TITLE:

Preparation of heteroaryldiazabicycloalkanes as

nicotinic cholinergic receptor ligands.

INVENTOR(S):

Peters, Dan; Olsen, Gunnar M.; Nielsen, Elsebet

Ostergaard; Nielsen, Simon Feldbaek; Ahring, Philip

K.; Jorgensen, Tino Dyhring

PATENT ASSIGNEE(S):

SOURCE:

Neurosearch A/S, Den. PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

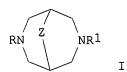
LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.			KI	ND	DATE			APPLICATION NO.					DATE				
WO 2001044243			Α	A2 20010621				WO 2000-DK696					20001214				
W	: AE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	
	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	
	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PL,	PT,	RO,	RU,	
	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	
	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM					
R'	W: GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
PRIORITY APPLN. INFO.:				DF					K 1999-1790				A 19991214				
OTHER SOURCE(S):				MARPAT 135:61360													
GI																	



Title compds. [I; Z = (CH2)n; n = 0-2; R = H, alkyl, aryl, aralkyl, AΒ

Page 17 09864905.trn

fluorescent group; R1 = (substituted) mono- or polyheterocyclyl], were prepd. as drugs and diagnostic agents (no data). Thus,

3,7-dibenzyl-3,7-diazabicyclo[3.3.1]nonane (prepn. given) was stirred with

HCO2H and Pd/C to give crude monobenzyl deriv., which was heated with 2-chloroquinoline at 100.degree. for 1 h to give 7-benzyl-3-(2-quinolinyl)-

3,7-diazabicyclo[3.3.1] nonane. I may be useful for the treatment of central nervous system diseases, disorders related to smooth muscle contraction, endocrine diseases or disorders, diseases or disorders related to neurodegeneration inflammation, pain, and drug withdrawal symptoms.

286945-99-1P 286946-00-7P 286946-07-4P ΙT 345317-15-9P 345317-16-0P 345317-17-1P 345317-18-2P 345317-19-3P 345317-20-6P 345317-21-7P 345317-22-8P 345317-23-9P 345317-24-0P 345317-25-1P 345317-26-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of heteroaryldiazabicycloalkanes as nicotinic cholinergic receptor ligands)

286945-99-1 CAPLUS RN

3,7-Diazabicyclo[3.3.1]nonane, 3-(3-pyridinyl)- (9CI) (CA INDEX NAME) CN

286946-00-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX

286946-07-4 CAPLUS RN

3,7-Diazabicyclo[3.3.1]nonane, 3-(6-fluoro-3-pyridinyl)- (9CI) (CA INDEX CN NAME)

RN 345317-15-9 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-ethoxy-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-16-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-17-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-bromo-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-18-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-fluoro-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-19-3 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-iodo-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-20-6 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-[5-(trifluoromethyl)-3-pyridinyl]- (9CI) (CA INDEX NAME)

RN 345317-21-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-bromo-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-22-8 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-iodo-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-23-9 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-ethyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 345317-24-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-ethynyl-3-pyridinyl)- (9CI) (CA INDEX

NAME)

RN 345317-25-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(phenylmethyl)-7-(2-quinolinyl)- (9CI)

(CA INDEX NAME)

RN 345317-26-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(2-quinolinyl)- (9CI) (CA INDEX NAME)

ANSWER 3 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:120739 CAPLUS

DOCUMENT NUMBER: 134:326572

TITLE: Chiral bicyclic phosphoramidites - a new class of

ligands for asymmetric catalysis

AUTHOR(S): Huttenloch, Oliver; Spieler, Jan; Waldmann, Herbert

CORPORATE SOURCE: Max-Planck-Institut fur molekulare Physiologie

Abteilung Chemische Biologie, Dortmund, 44227,

Germany

SOURCE: Chemistry--A European Journal (2001), 7(3), 671-675

CODEN: CEUJED; ISSN: 0947-6539

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:326572

AB The development of new ligands for catalytic asym. C-C bond formation is of great interest to org. synthesis. The prepn. of new class of chiral phosphoramidites that embody one or two binaphthol units attached to an achiral azabicyclic [3.3.1] or [3.3.0] framework is described. These

ligands were easily accessible from

(R)-1,1'-binaphthyl-2,2'-dioxaphosphorchloridite and the corresponding heterobicyclic core. They were employed in enantioselective Cu-catalyzed addns. of different dialkylzinc reagents to cyclic and acyclic enones. The chiral ketones were obtained with an enantiomeric ratio up to 91:9. The choice of the best ligand proved to

be strongly dependent on each substrate. In addn., ligand derived from 1,5-dimethyl-3,7-diazabicyclo[3.3.0]octane was the most suitable for Rh-catalyzed hydrogenations of .alpha.,.beta.-unsatd. esters, giving rise to di-Me 2-methylsuccinate and Me N-acetylalaninate with enantiomer

ratios

up to 95:5.

IT 335616-63-2P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

USES (Uses)

(prepn. of chiral bicyclic phosphoramidites as new class of ligands

for

asym. catalysis)

RN 335616-63-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-bis[(11bR)-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin-4-yl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR

THIS

а

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L8 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:780169 CAPLUS

DOCUMENT NUMBER: 134:85911

TITLE: 1H NMR spectral study of some 4-hydroxy-2,6-

diphenylpiperidines and a systematic analysis of 1H

chemical shifts in some piperidines and

3,7-diazabicyclo[3.3.1]nonane derivatives

AUTHOR(S): Pandiarajan, K.; Manimekalai, A.; Rajarajan, G.

CORPORATE SOURCE: Department of Chemistry, Annamalai University,

Annamalai Nagar, 608 002, India

SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (2000),

39B(7), 517-524

CODEN: IJSBDB; ISSN: 0376-4699

PUBLISHER: National Institute of Science Communication, CSIR

DOCUMENT TYPE: Journal LANGUAGE: English

AB 1H NMR spectra have been recorded for some 3,5-dimethyl-2,6-diphenyl-4-piperidinol derivs. and their corresponding axial 4-hydroxy epimers. The proton chem. shifts and coupling consts. have been detd. by anal. of the spectra. The vicinal coupling consts. suggest that a boat form may make

slight contribution to the equatorial alcs. The .DELTA..delta.ea value for the protons in 5-position is less in the axial alc. than in the corresponding equatorial alc. and becomes neg. in one case. The effects

of Me, Et, iso-Pr and hydroxyl groups on the chem. shifts of the ring protons are discussed. Anal. of the chem. shifts of some 9-hydroxy-3,7-diazabicyclo[3.3.1]nonanes suggests that the 3,7-di-Ph substituted compds. exist in a boat-chair conformation.

187521-32-0 187521-34-2 187800-56-2

317820-65-8

ΙT

RL: PRP (Properties)

(proton NMR study of some piperidinols and diazabicyclononane derivs.)

RN 187521-32-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 9-oxo-3,7-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

RN 187521-34-2 CAPLUS

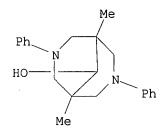
CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 9-hydroxy-3,7-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

RN 187800-56-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1,5-dimethyl-3,7-diphenyl- (9CI) (CA INDEX NAME)

RN 317820-65-8 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-ol, 1,5-dimethyl-3,7-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ACCESSION NUMBER: 2000:535147 CAPLUS

DOCUMENT NUMBER: 133:135332

TITLE: Preparation of diazabicyclic derivatives as nicotinic

acetylcholine receptor ligands

INVENTOR(S): Bunnelle, William H.; Cristina, Daniela Barlocco;

Daanen, Jerome F.; Dart, Michael J.; Meyer, Michael D.; Ryther, Keith B.; Schrimpf, Michael R.; Sippy,

Kevin B.; Toupence, Richard B.

PATENT ASSIGNEE(S): Abbott Laboratories, USA

SOURCE: PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2000044755 A1 20000803 WO 2000-US1620 20000125

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,

Page 25 09864905.trn

MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG EP 2000-906998 20000125 EP 1147112 A1 20011024 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO BR 2000-7664 20000125 20020507 BR 2000007664 Α NO 2001-3731 20010730 20010918 NO 2001003731 Α A 19990129 PRIORITY APPLN. INFO.: US 1999-239838 W 20000125 WO 2000-US1620 MARPAT 133:135332 OTHER SOURCE(S):

AB The title compds. (I) [wherein V and X = independently a bond or CH2; W and Y = independently a bond, CH2, or CH2CH2; Z = CH2, CH2CH2, or CH2CH2CH2; L1 = a bond or (CH2)n; n = 1-5; R1 = certain heteroarom. rings,

such as pyridinyl, pyrimidinyl, pyrazinyl, quinolinyl, etc.; R2 = H, alkoxycarbonyl, (amino)alkyl, aminocarbonylalkyl, benzyloxycarbonyl, cyanoalkyl, dihydro-3-pyridinylcarbonyl, hydroxy(alkyl), phenoxycarbonyl, or NH2] and their pharmaceutically acceptable salts were prepd. as cholinergic modulators for the treatment of pain and other conditions. For example, (-)-II.bul.Ts-OH was prepd. in a multi-step sequence involving N-protection of (1R,4R)-2-benzyl-2,5diazabicyclo[2.2.1]heptane.bul.2HBr with CO(OBu-t)2 (94%), debenzylation (93%), addn. of 2-chloro-5-iodopyridine (67%), and deprotection followed by salt formation (71%). (-)-II.bul.Ts-OH exhibited high affinity for

the

nicotinic acetylcholine receptor with Ki of 0.01 nM and showed a significant antinociceptive effect at the minimally ED of 0.62 .mu.mol/kg in the mouse hot plate paradigm.

ΙT **286945-99-1P**, 3-(3-Pyridinyl)-3,7-diazabicyclo[3.3.1]nonane 286946-00-7P, 3-(6-Chloro-3-pyridinyl)-3,7diazabicyclo[3.3.1]nonane

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of N-substituted diazabicycloalkanes as nicotinic acetylcholine

receptor ligands by addn. of haloheterocycles to protected diazabicyloalkanes followed by deprotection and optional substitution) RN 286945-99-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-00-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

IT 286946-01-8P, 3-(6-Chloro-5-methyl-3-pyridinyl)-3,7diazabicyclo[3.3.1]nonane 286946-02-9P, 3-(5,6-Dichloro-3pyridinyl)-3,7-diazabicyclo[3.3.1]nonane 286946-03-0P, 3-(6-Chloro-5-ethynyl-3-pyridinyl)-3,7-diazabicyclo[3.3.1]nonane 286946-04-1P, 3-(6-Chloro-5-cyano-3-pyridinyl)-3,7diazabicyclo[3.3.1]nonane 286946-05-2P, 3-(5-Methoxy-3pyridinyl)-3,7-diazabicyclo[3.3.1] nonane 286946-06-3P, 3-(6-Fluoro-5-methyl-3-pyridinyl)-3,7-diazabicyclo[3.3.1]nonane **286946-07-4P**, 3-(6-Fluoro-3-pyridinyl)-3,7diazabicyclo[3.3.1]nonane 286946-08-5P, 3-(5-Ethynyl-6-fluoro-3pyridinyl)-3,7-diazabicyclo[3.3.1]nonane 286946-09-6P, 3-(5-Cyano-6-fluoro-3-pyridinyl)-3,7-diazabicyclo[3.3.1]nonane **286946-10-9P**, 3-(5-Bromo-6-chloro-3-pyridinyl)-3,7diazabicyclo[3.3.1]nonane 286947-18-0P, 3-(3-Pyridinyl)-3,7diazabicyclo[3.3.1]nonane bis(4-methylbenzenesulfonate) **286947-19-1P**, 3-(6-Chloro-3-pyridinyl)-3,7diazabicyclo[3.3.1] nonane 4-methylbenzenesulfonate RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of N-substituted diazabicycloalkanes as nicotinic acetylcholine receptor ligands by addn. of haloheterocycles to protected diazabicyloalkanes followed by deprotection and optional substitution) 286946-01-8 CAPLUS RN CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-chloro-5-methyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-02-9 CAPLUS CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5,6-dichloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-03-0 CAPLUS CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-chloro-5-ethynyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-04-1 CAPLUS CN 3-Pyridinecarbonitrile, 2-chloro-5-(3,7-diazabicyclo[3.3.1]non-3-yl)-(9CI) (CA INDEX NAME)

RN 286946-06-3 CAPLUS CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-fluoro-5-methyl-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-07-4 CAPLUS
CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-fluoro-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-08-5 CAPLUS CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-ethynyl-6-fluoro-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286946-09-6 CAPLUS

CN 3-Pyridinecarbonitrile, 5-(3,7-diazabicyclo[3.3.1]non-3-yl)-2-fluoro-(9CI) (CA INDEX NAME)

RN 286946-10-9 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(5-bromo-6-chloro-3-pyridinyl)- (9CI) (CA INDEX NAME)

RN 286947-18-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(3-pyridinyl)-, bis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

CRN 286945-99-1 CMF C12 H17 N3

CM 2

CRN 104-15-4 CMF C7 H8 O3 S

RN 286947-19-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(6-chloro-3-pyridinyl)-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

CRN 286946-00-7 CMF C12 H16 C1 N3

CM 2

CRN 104-15-4 CMF C7 H8 O3 S

REFERENCE COUNT:

4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

SOURCE:

L8 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:531065 CAPLUS

DOCUMENT NUMBER: 133:232367

TITLE: Diazabicyclo[3.3.1]nonanone-type ligands for the

opioid receptors

AUTHOR(S): Kuhl, Ulrich; Englberger, Werner; Haurand, Michael;

Holzgrabe, Ulrike

CORPORATE SOURCE: Institut fur Pharmazie und Lebensmittelchemie,

Universitat Wurzburg, Wurzburg, D-97074, Germany Archiv der Pharmazie (Weinheim, Germany) (2000),

333(7), 226-230

CODEN: ARPMAS; ISSN: 0365-6233

PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal LANGUAGE: English

AB Previously 2,4-dipyridine substituted 3,7-diazabicyclo-[3.3.1]nonanone diesters were found to have a high affinity and selectivity towards the .kappa.-opioid receptor. The purpose of this study was to check the influence of substituents at position N3 on the affinity to the .mu.-, .delta.-, and .kappa.-receptors. Whereas a phenylethyl group is able to create affinity to the .mu.-receptor, small substituents such as a hydrogen or a Me group are responsible for a high affinity to the .kappa.-receptor. In addn., a dimeric compd. was found to have affinity to the .kappa.-receptor. Although all compds. will bear at least one pos.

charge under physiol. conditions they show a considerable lipophilicity, indicating the possibility of passing the blood-brain barrier.

IT 294181-79-6 294181-83-2 294181-86-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological $\ensuremath{\mathsf{BSO}}$

study, unclassified); PRP (Properties); BIOL (Biological study)
 (diazabicyclononanone-type ligands for opioid receptors)

RN 294181-79-6 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 3-cyclopropyl-7-methyl-9-oxo-2,4-di-2-pyridinyl-, dimethyl ester, (1R,2S,4R,5S)-rel-(9CI)

(CA INDEX NAME)

Relative stereochemistry.

RN 294181-83-2 CAPLUS
CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid,
3-cyclobutyl-7-methyl9-oxo-2,4-di-2-pyridinyl-, dimethyl ester, (1R,2S,4R,5S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 294181-86-5 CAPLUS
CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 3-cyclopentyl-7methyl-9-oxo-2,4-di-2-pyridinyl-, dimethyl ester, (1R,2S,4R,5S)-rel(9CI)

(CA INDEX NAME)

Relative stereochemistry.

Page 33 09864905.trn

REFERENCE COUNT:

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 7 OF 28 CAPLUS COPYRIGHT 2002 ACS

1998:694267 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 130:66587

TITLE: Conformational Restriction of Acyclic .pi.-Allyl

Ligands in (3,7-Diphenyl-1,5-

dimethylbispidinone) (.eta.3-alkenyl) palladium

Complexes

AUTHOR(S): Gogoll, Adolf; Grennberg, Helena; Axen, Andreas

CORPORATE SOURCE: Department of Organic Chemistry, University of

Uppsala, Uppsala, 751 21, Swed.

SOURCE: Organometallics (1998), 17(24), 5248-5253

CODEN: ORGND7; ISSN: 0276-7333

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

English LANGUAGE:

A chelating dinitrogen ligand based on the bispidine skeleton is shown to restrict the conformational freedom of small, acyclic .pi.-allyl ligands in Pd complexes. The .pi.-allyl ligand is locked into one single rotamer by entirely steric interactions. These interactions do not require the presence of bulky substituents on the .pi.-allyl ligand. The geometry of these complexes was studied by NMR spectroscopy in combination with semiempirical calcns.

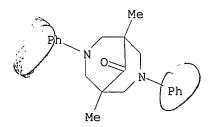
ΙT **187800-56-2**, 3,7-Diphenyl-1,5-dimethylbispidinone

RL: RCT (Reactant); RACT (Reactant or reagent)

(conformational restriction of acyclic .pi.-allyl ligands in (diphenyldimethylbispidinone) (.eta.3-alkenyl)palladium complexes)

RN 187800-56-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1,5-dimethyl-3,7-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L8 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:484412 CAPLUS

DOCUMENT NUMBER: 129:189250

TITLE: Synthesis and conversions of polyhedral compounds.

25.

Synthesis and conversions of certain oxindole

derivatives of 1,3-diazaadamantane and

3,7-diazabicyclo[3.3.1]nonane

AUTHOR(S): Agadzhanyan, Ts. E.; Gevorkyan, K. A.

CORPORATE SOURCE: A. L. Mndzhoyan Institute of Fine Organic Chemistry,

Academy of Sciences of the Republic of Armenia,

Yerevan, 375014, Armenia

SOURCE: Chemistry of Heterocyclic Compounds (New

York) (Translation of Khimiya Geterotsiklicheskikh

Soedinenii) (1998), Volume Date 1997, 33(11),

1288-1291

CODEN: CHCCAL; ISSN: 0009-3122

PUBLISHER: Consultants Bureau

DOCUMENT TYPE: Journal

LANGUAGE: English

AB By the reaction of 1,5-dimethyl-9-oxo-3,7-diazabicyclo[3.3.1] nonane with

isatin and a no. of its derivs.,
spiro(1,3-diazaadamantane-2,3'-oxindoles)

have been synthesized. In the case of 5-bromoisatin, either

3-(3-hydroxyoxindolyl)-3,7-diazabicyclo[3.3.1]nonane or the corresponding spirane is obtained, depending on the temp. The interaction of these products with acetic anhydride has been studied.

IT 211917-31-6P 211917-33-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(reactions of diazabicyclononane with isatins)

RN 211917-31-6 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one,

3-(5-bromo-2, 3-dihydro-3-hydroxy-2-oxo-

1H-indol-3-yl)-1,5-dimethyl- (9CI) (CA INDEX NAME)

211917-33-8 CAPLUS RN

3,7-Diazabicyclo[3.3.1]nonan-9-one, 3-acetyl-7-(5-bromo-2,3-dihydro-3-CN hydroxy-2-oxo-1H-indol-3-yl)-1,5-dimethyl- (9CI) (CA INDEX NAME)

ANSWER 9 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:665555 CAPLUS

DOCUMENT NUMBER: 127:307286 TITLE:

Study on the synthesis and antibacterial activity of

mannich bases containing .alpha.,.beta.-unsaturated

ketone

AUTHOR(S): Gu, Shangxiang; Yao, Kaling; Gu, Yonghong

Dep. Chem., Lanzhou Univ., Lanzhou, 730000, Peop. CORPORATE SOURCE:

Rep.

China

SOURCE: Yaoxue Xuebao (1997), 32(1), 38-42

CODEN: YHHPAL; ISSN: 0513-4870

PUBLISHER: Chinese Academy of Medical Sciences, Institute of

Materia Media

DOCUMENT TYPE: Journal LANGUAGE: Chinese

AB 12 Mannich bases contg. .alpha.,.beta.-unsatd. ketone were synthesized

and

characterized by elemental anal., IR, 1HNMR, UV and MS spectra. the compds. showed marked antibacterial activity.

IT 197514-66-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

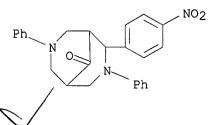
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(study on the synthesis and antibacterial activity of mannich bases

contg. .alpha.,.beta.-unsatd. ketone)

RN 197514-66-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 2-(4-nitrophenyl)-3,7-diphenyl- (9CI) (CA INDEX NAME)



ANSWER 10 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:172468 CAPLUS

DOCUMENT NUMBER: 126:199654

TITLE: (.pi.-Allyl)palladium Complexes with

N,N'-Diphenylbispidinone Derivatives as a New Type of Chelating Nitrogen Ligand: Complexation Studies, Spectroscopic Properties, and an X-ray Structure of (3,7-Diphenyl-1,5-dimethylbispidinone)[(1,3-.eta.3-propenyl)-palladium] Trifluoromethanesulfonate

AUTHOR(S): Gogoll, Adolf; Grennberg, Helena; Axen, Andreas CORPORATE SOURCE: Department of Organic Chemistry, University of

Uppsala, Uppsala, 751 21, Swed.

SOURCE: Organometallics (1997), 16(6), 1167-1178

CODEN: ORGND7; ISSN: 0276-7333

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:199654

A series of 3,7-diazabicyclo[3.3.1]nonane (bispidine) derivs. have been synthesized, and their properties as bidentate nitrogen ligands for (.pi.-allyl)palladium complexes have been investigated. Complexes of these ligands and of N, N'-diphenylpiperazine and N, N'-diphenyl-1, 4diazacyclooctane with (1,3-.eta.3-propenyl)palladium are described, in particular their effects on the proton chem. shifts of the .pi.-allyl ligand. Ligand dynamics of the complexes is discussed. The structure of [(3,7-diphenyl-1,5-dimethylbispidinone)(1,3-.eta.3-propenyl)Pd]CF3SO3 has been detd. by x-ray crystallog. N,N'-Diphenylbispidine derivs. show an unusually large steric interaction with the .pi.-allyl ligand, indicated by a tilt of the .pi.-allyl plane toward the N-Pd-N plane by 122.8(8).degree.. Chem. shift changes of the .pi.-allyl protons due to the arom. ring current are related to the geometry of the complexes. ligands are tested on the larger 2-methylene-6,6dimethylbicyclo[3.1.1]hept-2,3,10-.eta.3-enyl ligand, demonstrating their potential as chem. shift reagents.

IT 187521-32-0P 187800-56-2P

as

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of allylpalladium complexes with diphenylbispidinone derivs.

new type of chelating nitrogen ligand and their complexation studies

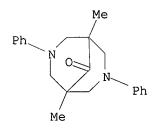
and spectroscopic properties)

RN 187521-32-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 9-oxo-3,7-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

RN 187800-56-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1,5-dimethyl-3,7-diphenyl- (9CI) (CA INDEX NAME)



ANSWER 11 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:57952 CAPLUS

DOCUMENT NUMBER: 126:185747

TITLE: Chemical shift assignment of geminal protons in

3,7-diazabicyclo[3.3.1]nonanes: an unexpected deviation from the axial/equatorial chemical shift

order

AUTHOR(S): Gogoll, Adolf; Grennberg, Helena; Axen, Andreas

CORPORATE SOURCE: Department of Organic Chemistry, University of

Uppsala, Uppsala, 751 21, Swed.

SOURCE: Magnetic Resonance in Chemistry (1997), 35(1), 13-20

CODEN: MRCHEG; ISSN: 0749-1581

PUBLISHER: Wiley
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The chem. shift order of axial and equatorial methylene protons in 1,5-disubstituted 3,7-diazabicyclo [3.3.1] nonan-9-ones may be altered by substituents in the 1,5-positions, but the corresponding alcs. behave differently. Unambiguous signal assignments for a series of the title

compds. are provided, based on 3JCH coupling consts. and on $\{1H\}$ 13C heteronuclear Overhauser effects. Substituent anisotropy effects as a source of the chem. shift changes are discussed.

IT 187521-34-2P

RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation) (deviation from axial/equatorial chem. shift order and chem. shift assignment of geminal protons in 3,7-diazabicyclo[3.3.1]nonanes)

RN 187521-34-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 9-hydroxy-3,7-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

IT 187521-32-0

RL: RCT (Reactant); RACT (Reactant or reagent) (deviation from axial/equatorial chem. shift order and chem. shift assignment of geminal protons in 3,7-diazabicyclo[3.3.1]nonanes)

RN 187521-32-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 9-oxo-3,7-diphenyl-, dimethyl ester (9CI) (CA INDEX NAME)

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:322870 CAPLUS

DOCUMENT NUMBER: 120:322870

TITLE: Mannich reaction with arylamine as the amino

component. (X). Mannich reaction of arylamine with

benzylidenebutanone

AUTHOR(S): Liao, Hongbiao; Li, Yan; Xu, Xiujuan

CORPORATE SOURCE: Dep. Chem., Beijing Normal Univ., Beijing, 100875,

Peop. Rep. China

SOURCE: Beijing Shifan Daxue Xuebao, Ziran Kexueban (1992),

28(3), 367-71

CODEN: BSDKDH; ISSN: 0476-0301

DOCUMENT TYPE: Journal LANGUAGE: Chinese

AB Mannich reaction of PhCH:CR1COCH2R2 (R1, R2 = H, Me) with R3NH2 (R3 = Ph,

4-C1C6H4, 4-BrC6H4, 3,4-C12C6H3, 4-MeC6H4, 4-MeOC6H4, 4-methoxy-2-

nitrophenyl) gave 60-85% PhCH:CR1COCHR2CH2NHR3.

IT 155498-59-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

RN 155498-59-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1-methyl-3,7-bis(4-nitrophenyl)-2-

phenyl- (9CI) (CA INDEX NAME)

ANSWER 13 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:118865 CAPLUS

DOCUMENT NUMBER: 112:118865

TITLE: Preparation of 3,7-diazabicyclo[3.3.1]nonanes as heat

and light stabilizers

INVENTOR(S): Aumueller, Alexander; Neumann, Peter; Trauth, Hubert

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 13 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
DE 3743279	A1	19890629	DE 1987-3743279	19871219
US 4943391	Α	19900724	US 1988-286295	19881210
EP 324945	A2	19890726	EP 1988-120776	19881213
EP 324945	A3	19910116		
EP 324945	В1	19940309		
R: BE, CH,	DE, FR	GB, IT, LI		
JP 01211588	A2	19890824	JP 1988-318709	19881219

19871219

PRIORITY APPLN. INFO.: DE 1987-3743279
OTHER SOURCE(S): CASREACT 112:118865

GΙ

R³ R¹¹ R¹²

AB The title compds. [I; A, B = bond, C1-22 alkylene, cycloalkylene, (CH2)mO2, (CH2)mCONR10, (CH2)mCONH(CH2)l; M = piperidinediyl group Q which

II

may be bound to A via the C- or N-atom; R1 = H, R2 = H, OH; R1R2 = O; R3, R4 = (un)substituted Ph, 1- or 2-naphthyl; R5 = H, cyano, OH, alkanoyloxy,

etc.; MBR5 = substituted hydroxyphenyl, N-attached heterocyclyl; R10 = H,
C1-22 alkyl, Ph, etc.; R11-R14 = C1-4 alkyl; R11R12, R13R14 = (CH2)4-5;
1,

m = 1-20; n = 1-70] were prepd. as heat and light stabilizers for org. materials (no data). Thus, (PhCH2)2CO, QH2(R11-R14 = Me), and paraformaldehyde were heated 6 h in EtOH to give title compd. II (R = C-attached QH, R11-R14 = Me).

IT 124699-37-2P 124699-38-3P 124699-39-4P 124699-40-7P 124699-41-8P 125636-30-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as heat and light stabilizer)

RN 124699-37-2 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1,5-diphenyl-3,7-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

RN 124699-38-3 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-ol, 1,5-diphenyl-3,7-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

RN 124699-39-4 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3,7-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)-1,5-diphenyl- (9CI) (CA INDEX NAME)

RN 124699-40-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-ol, 3,7-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)-1,5-diphenyl- (9CI) (CA INDEX NAME)

RN 124699-41-8 CAPLUS

CN 1-Piperidineacetonitrile, 4,4'-(9-oxo-1,5-diphenyl-3,7-diazabicyclo[3.3.1]nonane-3,7-diyl)bis[2,2,6,6-tetramethyl-(9CI) (CA INDEX NAME)

RN 125636-30-8 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1,5-bis(4-methylphenyl)-3,7-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

Page 43 09864905.trn

1 locast retur

ANSWER 14 OF 28 CAPLUS COPYRIGHT 2002 ACS 1989:415252 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 111:15252

Improving the lightfastness of colored organic TITLE:

materials Kaneko, Yutaka

INVENTOR(S): Konica Co., Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 13 pp. SOURCE:

CODEN: JKXXAF

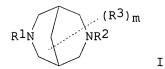
DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ____ _____ _____ JP 63281158 A2 19881117 JP 1987-116326 19870513

GΙ



In the title method, an org. colored material and I [R1, R2 = H, alkyl,cycloalkyl, alkenyl, cycloalkenyl, alkynl, aryl, heterocycycl, acyl, sulfonyl, carbamoyl, phosphonyl, sulfamoyl, oxycarbonyl; R3 = substituent;

m = 0-6] are allowed to coexist. The method is esp. useful in color photog., inks and fabric dyes. A photog material contained I [R1 = CH3; R2 = C6H5CH2] and a magenta dye to prevent photofading.

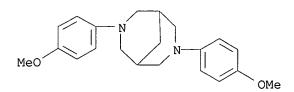
121171-68-4 121171-69-5 121171-70-8 ΙT 121171-72-0 121171-73-1 121171-76-4 121185-53-3

RL: USES (Uses)

(lightfastness improvement additive, for orgs.)

RN 121171-68-4 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



121171-69-5 CAPLUS RN

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-bis[4-(dodecyloxy)phenyl]- (9CI) (CA INDEX NAME)

$$Me^{-(CH_2)_{11}-0}$$
 N
 $O^{-(CH_2)_{11}-Me}$

RN 121171-70-8 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-bis[4-(hexadecyloxy)phenyl]- (9CI)

(CA

INDEX NAME)

$$Me^{-(CH_2)_{15}-0}$$
 N
 $O^{-(CH_2)_{15}-Me}$

RN 121171-72-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-di-2-pyridinyl- (9CI) (CA INDEX NAME)

RN 121171-73-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-dicyclohexyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

RN 121171-76-4 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-dodecyl-7-(2-pyridinyl)- (9CI) (CA INDEX

NAME)

RN 121185-53-3 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-dodecyl-7-phenyl- (9CI) (CA INDEX NAME)

 $(CH_2)_{11} - Me$

ANSWER 15 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1985:470647 CAPLUS

DOCUMENT NUMBER:

103:70647

TITLE:

Synthesis and conformational study of

3,7-diazabicyclo[3.3.1]nonan-9-ones

AUTHOR(S):

Caujolle, Raymond; Castera, Pierre; Lattes, Armand Lab. Chim. Ther., Toulouse, 31077, Fr. Bull. Soc. Chim. Fr. (1984), (9-10, Pt. 2), 413-16

CORPORATE SOURCE:

SOURCE:

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE:

Journal

LANGUAGE:

French

1H and 13C NMR studies of various 3,7-diazabicyclo [3.3.1] nonanones AB indicate an equil. between chair-chair and chair-boat conformations for these compds. N(7) atom bears bulky substituents, the chair-boat form is more favored at equil.

ΙT 97564-84-6 97564-85-7 97564-86-8

97564-87-9 97564-89-1

RL: PRP (Properties)

(carbon-13 and proton NMR of, conformation in relation to)

RN 97564-84-6 CAPLUS

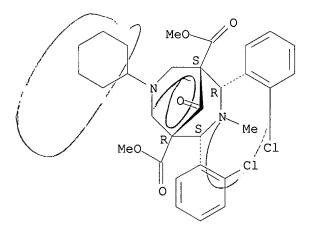
CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 2,4-bis(2chlorophenyl)-7-cyclopentyl-3-methyl-9-oxo-, dimethyl ester, (endo,endo)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 97564-85-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 2,4-bis(2-chlorophenyl)-7-cyclohexyl-3-methyl-9-oxo-, dimethyl ester, (endo,endo)-(9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 97564-86-8 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 2,4-bis(2-chlorophenyl)-7-cycloheptyl-3-methyl-9-oxo-, dimethyl ester, (endo,endo)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 97564-87-9 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 2,4-bis(2-chlorophenyl)-7-cyclooctyl-3-methyl-9-oxo-, dimethyl ester, (endo,endo)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 97564-89-1 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 2,4-bis(2-chlorophenyl)-3-methyl-9-oxo-7-tricyclo[3.3.1.13,7]dec-1-yl-, dimethyl ester, (endo,endo)- (9CI) (CA INDEX NAME)

ANSWER 16 OF 28 CAPLUS COPYRIGHT 2002 ACS

1984:581621 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 101:181621

TITLE: Crystal and molecular structure of

3,7-diphenyl-3,7-diazabicyclo[3.3.1]nonane, C19H22N2

Levina, O. I.; Potekhin, K. A.; Kurkutova, E. N.; AUTHOR(S):

Struchkov, Yu. T.; Palyulin, V. A.; Zefirov, N. S.

Vladimir. Pedagog. Inst., Vladimir, USSR CORPORATE SOURCE:

Dokl. Akad. Nauk SSSR (1984), 277(2), 367-70 SOURCE:

[Crystallogr.]

CODEN: DANKAS; ISSN: 0002-3264

DOCUMENT TYPE: Journal LANGUAGE: Russian

The title compd. is monoclinic, space group P21/c, with a 10.060(1), b AB

17.338(2), c 9.123(2) .ANG., and .beta. 100.62(1).degree.; Z = 4. The at.

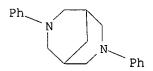
parameters are given. The structure was detd. by direct methods and refined by full-matrix least-squares to R = 0.074. The mol. has the double-chain conformation.

54171-89-0 ΙT

> RL: PRP (Properties) (structure of)

RN 54171-89-0 CAPLUS

3,7-Diazabicyclo[3.3.1]nonane, 3,7-diphenyl- (9CI) (CA INDEX NAME) CN



CAPLUS COPYRIGHT 2002 ACS ANSWER 17 OF 28

1982:104172 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 96:104172

TITLE: Synthesis and reactions of polyhedral compounds. II.

Synthesis of 5,7-dimethyl-1,3-diazaadamantan-6-one

and

-6-ol and their conversion into 3,7-diacyl(dicarbalkoxy, diarylsulfonyl)-3,7-

diazabicyclo[3,3,1]nonanes

AUTHOR(S):

Agadzhanyan, Ts. E.; Arutyunyan, G. L.

CORPORATE SOURCE: SOURCE:

Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR

Arm. Khim. Zh. (1981), 34(11), 963-8

CODEN: AYKZAN; ISSN: 0515-9628

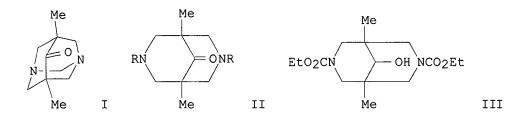
DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

GI

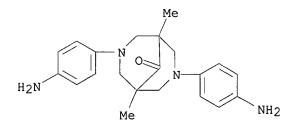


AB Cyclocondensation of EtCOEt, HCHO, and AcONH4 gave 19.5% I, which reacted with RCOCl, RO2CCl, or ArSO2Cl to give II [R = BrCH2CO, BrCH2CH2CO, CH2:CHCO, Bz, (phthalimidomethoxy)carbonyl, EtOCO, PhCH2OCO, 4-MeC6H4SO2, 4-(MeO2CNH)C6H4SO2]. LiAlH4 redn. of I gave 83.3% alc., which with ClCO2Et gave III.

IT 80808-97-5P

RN 80808-97-5 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3,7-bis(4-aminophenyl)-1,5-dimethyl-(9CI) (CA INDEX NAME)



ANSWER 18 OF 28 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1981:425025 CAPLUS

DOCUMENT NUMBER:

95:25025

TITLE:

Synthesis and reactions of ketones of 3-aza-, 3,7-diazabicyclononane and 3,7-diazaadamantane series

AUTHOR(S): Omarov, T. T.; Baisalbaeva, S. A.; Gubasheva, A. Sh.

CORPORATE SOURCE: USS

SOURCE: Tr. Inst. Khim. Nauk, Akad. Nauk Kaz. SSR (1980), 52,

147-70

CODEN: TIKNAG; ISSN: 0568-5087

DOCUMENT TYPE:

LANGUAGE:

Journal Russian

GΙ

AB Condensation of cyclohexanone with BzH and H4NOAc gave a mixt. of diazabicyclononanone I and 2,6-dibenzylidenecyclohexanone. I was methylated. The diazabicyclononanes II (R = H, Me) were obtained by a similar condensation from the resp. piperidinone. The diazaadamantanes III were obtained from II by condensation with HCHO. III were reduced to alcs. I was converted to acetylenic alcs. Addnl. reactions of I, II and III were discussed. The conformation, spectra and biol. activity of I,

and III were discussed with 72 refs.

IT 77446-47-0P 77446-50-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and spectra of)

RN 77446-47-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 1,3,5-triphenyl- (9CI) (CA INDEX NAME)

RN 77446-50-5 CAPLUS

3,7-Diazabicyclo[3.3.1]nonan-9-ol, 9-ethynyl-1,3,5-triphenyl- (9CI) (CA CN INDEX NAME)

$$HC = C$$
 HN
 Ph
 OH
 Ph

ANSWER 19 OF 28 CAPLUS COPYRIGHT 2002 ACS

CCESSION NUMBER:

1980:426411 CAPLUS

DOCUMENT NUMBER:

93:26411

TITLE:

Spiro heterocyclic derivatives. XV. Some N-methyl-N'-alkyl(or aralkyl)-3,7-diazabicycl o[3.3.1]nonan-9-ones and some 9-spiro-5'-hydantoin derivatives of 3,7-diazabicyclo[3.3.1]nonanes

Gonzalez Trigo, G.; Galvez Ruano, E.; Menendez Aguirre, C.

AUTHOR(S):

Fac. Farm., Univ. Complutense Madrid, Madrid, Spain

CORPORATE SOURCE: SOURCE:

An. Quim. (1979), 75(12), 894-8 CODEN: ANQUBU; ISSN: 0365-4990

DOCUMENT TYPE:

Journal

LANGUAGE:

Spanish

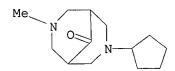
GI

AB Reaction of N-methyl-4-piperidone with HCHO and amines RNH2 in AcOH soln. gave the 3,7-diazabicyclo[3.3.1]nonan-9-ones I [R = C1-C4 alkyl, cyclopentyl, cyclohexyl, PhCH2, PhCH2CH2, Me2N(CH2)3, HOCH2CH2], which reacted with KCN and (NH4)2CO3 to give the spirohydantoins II (R1 = Me,

R2 = R or R1 = R, R2 = Me). IR band of I and II and NMR chem. shifts of II are tabulated.

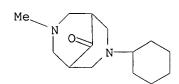
RN 73977-30-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3-cyclopentyl-7-methyl- (9CI) (CA INDEX NAME)



RN 73990-91-7 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3-cyclohexyl-7-methyl- (9CI) (CA INDEX NAME)



ANSWER 20 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1977:601499 CAPLUS

DOCUMENT NUMBER: 87:201499

TITLE: Nonsymmetric N-substituted bispidine

(3,7-diazabicyclo[3.3.1]nonane. I

AUTHOR(S): Hoerlein, Ulrich

CORPORATE SOURCE: Chem. Wiss. Lab. Pharma, Bayer A.-G., Wuppertal, Ger. SOURCE: Eur. J. Med. Chem. - Chim. Ther. (1977), 12(4), 301-5

CODEN: EJMCA5

DOCUMENT TYPE: Journal LANGUAGE: German

GI

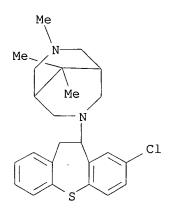
AB Bispidine derivs. I [R = R1 = Me, RR1 = (CH2)5, R2 = Me, Et, CH2Ph, R3 = H; RR1 = (CH2)4, R2 = Me, Et, R3 = H] were prepd. by condensing RR1C:C(CN)CO2Et with R2NHCOCH2CN, hydrolyzing II, and reducing diimides with LiAlH4. I [R3 = acyl, 4-FC6H4CO(CH2)3, 8-chloro-10,11-dihydrobenzo[b,f]thiepin-10-yl] were prepd. by substitution of I (R3 =

H).
I [RR1 = (CH2)5, (CH2)4, R2 = Me, R3 = COCH2Ph] had analgesic activities of the same magnitude as morphine. Some other I exhibited various pharmacol. activity, but only to a degree.

IT 64729-96-0P

RN 64729-96-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3-(8-chloro-10,11-dihydrodibenzo[b,f]thiepin-10-yl)-7,9,9-trimethyl- (9CI) (CA INDEX NAME)



ANSWER 21 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1977:484859 CAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

87:84859

TITLE:

SOURCE:

AUTHOR(S):

Synthesis of 4,9-diheterotricyclo[4.4.0.02,7]decanes

and bicyclo[3.3.1] nonanes

Zefirov, N. S.; Rogozina, S. V.

Mosk. Gos. Univ. im. Lomonosova, Moscow, USSR

Strukt. Svoistva Krist. (1974), 1, 94-9

CODEN: SSKRDM

DOCUMENT TYPE:

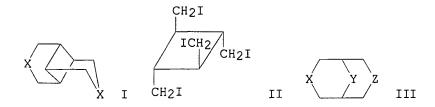
Journal

Page 54 09864905.trn

LANGUAGE:

Russian

GI



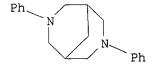
AΒ Tricyclodecane I (X = S) was obtained in 60% yield by refluxing II with Na2S in abs. alc. 6 h. Analogously II refluxed with PhNH2 60 h in PhMe gave I (X = NPh). Bicyclononanes III (X = O, Y = O, S, Z = S; X = S, Y = S)O, Z = S, Se) were obtained in 1.0-18.8% yields by treatment of a bis(iodomethyl)dioxane, oxathiane with Na2S or with Se. Addnl. obtained was 73.7% III (X = Z = NPh, Y = CH2).

ΙT 54171-89-0P

> RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

54171-89-0 CAPLUS RN

3,7-Diazabicyclo[3.3.1]nonane, 3,7-diphenyl- (9CI) (CA INDEX NAME) CN



ANSWER 22 OF 28 CAPLUS COPYRIGHT 2002 ACS

1976:90040 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 84:90040

TITLE: Synthesis of 4,9-diheterotricyclo[4.4.0.02,7]decanes

and bicyclo[3.3.1] nonanes

AUTHOR(S): Zefirov, N. S.; Rogozina, S. V.

CORPORATE SOURCE:

SOURCE: Struktura I Svoistva Kristallov (1974), (1), 94-9

From: Ref. Zh., Khim. 1975, Abstr. No. 19ZH312

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AΒ Title only translated.

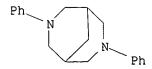
IT 54171-89-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

54171-89-0 CAPLUS RN

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-diphenyl- (9CI) (CA INDEX NAME)



ANSWER 23 OF 28 CAPLUS COPYRIGHT 2002 ACS

AGCESSION NUMBER: 1976:52620 CAPLUS

DOCUMENT NUMBER: 84:52620

TITLE: Crystallographic data of the compounds,

N, N-diphenyl-3, 7-diazabicyclo[3, 3, 1] nonane (C19H22N2)

and C22H20N2O2

AUTHOR(S): Levina, O. I.

CORPORATE SOURCE: USSR

SOURCE: Struktura I Svoistva Kristallov (1974), (1), 112-13

From: Ref. Zh., Khim. 1975, Abstr. No. 15B544

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Title only translated.

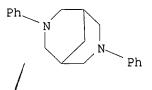
IT 54171-89-0

RL: PRP (Properties)

(crystal structure of)

RN 54171-89-0 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane, 3,7-diphenyl- (9CI) (CA INDEX NAME)



ANSWER 24 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:57412 CAPLUS

DOCUMENT NUMBER: 82:57412

TITLE: Stereochemical studies. XVIII. Conformational study

of heteroanalogs of bicyclo[3.3.1] nonane

AUTHOR(S): Zefirov, N. S.; Rogozina, S. V.

CORPORATE SOURCE: Chem. Dep., Moscow State Univ., Moscow, USSR

SOURCE: Tetrahedron (1974), 30(15), 2345-52

CODEN: TETRAB

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The conformations of the heteroanalogs I thru X of bicyclo[3.3.1] nonane

were detd. from their NMR. The double chair is the preferred

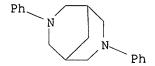
conformation

for I thru V; O-O and O-S repulsions distorted the chair giving flattened

wings. VI, IX, and X had increased proportions of boat-chair forms.

IT **54171-89-0**

RL: PRP (Properties)
 (conformation of, NMR in relation to)
54171-89-0 CAPLUS
3,7-Diazabicyclo[3.3.1]nonane, 3,7-diphenyl- (9CI) (CA INDEX NAME)



RN

CN

ANSWER 25 OF 28 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1969:101290 CAPLUS

DOCUMENT NUMBER: 70:101290

TITLE: Metal chelates of (2-pyridyl)-substituted

3,7-diazabicyclo[3.3.1] nonanones

AUTHOR(S): Haller, Rolf

CORPORATE SOURCE: Pharm. Inst., Univ. Freiburg/Br., Freiburg/Br., Ger.

SOURCE: Arch. Pharm. (Weinheim) (1969), 302(2), 113-18

CODEN: APBDAJ

DOCUMENT TYPE: Journal LANGUAGE: German

GI For diagram(s), see printed CA Issue.

AB Hot alc. L reacts with an equal molar quant. of alc. transition metal

salt

to give MLX2 (M, X, R, R1, yield (%), m.p. (decompn.) given): Fe, SCN,

Me,

CH2Ph, 89, -; Co, SCN, Me, CH2Ph, 74, 210-12.degree.; Cd, SCN, Me, CH2Ph, 69, 180.degree.; Ni, SCN, Et, CH2Ph, 76, 212-15.degree.; Mn, Cl, Et, Me, 71, 242.degree.. The ir spectra studied indicate that the azabicyclic complexes contain tetradentate ligands.

IT 4728-47-6

RL: PRP (Properties) (spectrum of, ir)

RN 4728-47-6 CAPLUS

CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 7-benzyl-9-oxo-3-phenyl-2,4-di-2-pyridyl-, diethyl ester (7CI, 8CI) (CA INDEX NAME)

L8 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1966:35818 CAPLUS

DOCUMENT NUMBER: 64:35818

ORIGINAL REFERENCE NO.: 64:6629c-h,6630c-f

TITLE: Substituted 3,7-diaza-and 3-oxa-7-azabicyclo [3.3.1]

nonanones

AUTHOR(S): Haller, R.

CORPORATE SOURCE: Univ. Freiburg/Br., Germany

SOURCE: Arzneimittel-Forsch. (1965), 15(11), 1327-30

DOCUMENT TYPE: Journal LANGUAGE: German

GI For diagram(s), see printed CA Issue.

AB Substituted piperidones and tetrahydropyrones having active H groups in the 3,5-positions underwent a Mannich-type reaction with HCHO and a primary amine to form the title compds. Methyl or ethyl esters of 2,6-disubstituted-4-piperidone-3,5-dicarboxylic acid (CA 60, 15824a), (0.01 mole) were dissolved in hot EtOH, and a 20% excess of aq. HCHO, and the amine added in order, followed by an addnl. 100 ml. EtOH to effect complete soln. After standing several days, the insol. products were filtered off, or the sol. products obtained as residues, and crystd. The following I were prepd. [R2, R3, R4, % yield, m.p. (solvent) given]: Me, H, PhCH2 (Ia), 70, 184-5.degree. (MeOH); Et, H, PhCH2, 68.5,

161-2.degree.
(EtOH); Me, H, Me, 68, 165.degree. (MeOH-H2O, 1:2); Et, H, Me, 35, 137.degree. (EtOH-ligroine, 1:1); Et, Me, Me, 41, 158.degree. (EtOH); Me, (CH2)2OH, PhCH2, 31, 197.degree. (MeOH); Et, (CH2)2OH, PhCH2, 22, 180.degree. (EtOH-H2O, 1:1); Et, PhCH2, PhCH2, 36, 188.degree. (EtOH);

Et,
Ph, PhCH2, 76, 178.degree. (EtOH); Et, H, 2-pyridylmethyl, 73,
169-70.degree. (EtOH-H2O, 1:1). II prepd. were (identification same as
for I): Me, H, Me, 55.5, 154-5.degree. (EtOH-H2O, 1:1); Me, H, PhCH2,
60.5, 183.degree. (MeOH-H2O, 4:1). III, 1,5-dicarbethoxy-7-benzyl2,4-di(3-pyridyl)-3,7-diazabicyclo[3.3.1]nonan-9-one, 75%, m. 183.degree.
(EtOH), was similarly prepd. A soln. of 10.7 g. pyridine-2carboxaldehyde, and 4 g. 2-aminoethanol in 30 ml. MeOH was treated with

carboxaldehyde, and 4 g. 2-aminoethanol in 30 ml. MeOH was treated with $8.7~\rm g.$ diethyl acetonedicarboxylate, 20 ml. ether was added, and the mixt.

kept 1 day to give 67% diethyl 1-(2-hydroxyethyl)-2,6-di(2-pyridyl)-4-

piperidone-3,5-dicarboxylate (IV) 67%, m. 146.degree. (decompn.) (MeOH). The corresponding diethyl ester (V) (53), m. 113-14.degree. (decompn.) (EtOH-H2O, 1:1), was similarly prepd. as was 87.5% diethyl 1-phenyl-2,6-di(2-pyridyl)-4-piperidone-3,5-dicarboxylate (VI), m. 139.degree. (decompn.) (EtOH), using aniline in place of 2-aminoethanol. IV-VI gave an intense red-violet color with alc. FeCl3. Diethyl 2,6-di(2-pyridyl)-4-piperidone-3,5-dicarboxylate (loc. cit.) (2 g.), was acetylated with 1.5 g. AcCl in 60 ml. benzene in the presence of 2 g. CaCO3 to yield 90% diethyl 1-acetyl-2,6-di(2-pyridyl)-4-piperidone-3,5-dicarboxylate (VII), m. 126.degree. (decompn.) (EtOH-H2O). VII (5 millimoles) was treated with HCHO and amines in a manner similar to the prepn. of I-III to yield

7-substituted-1,5-dicarbethoxy-2,4-di(2-pyridyl)-

3-acetyl-3,7-diazabicyclo [3.3.1] nonan-9-ones (VIII) as follows [R4, % yield, m.p. (solvent) given]: H, 45, 197.degree. (decompn.) (EtOH-H2O, 2:1); Me, 53, 130.degree. (decompn.) (EtOH-H2O, 2:1); PhCH2, 70, 170.degree. (decompn.) (EtOH). Esters of

2,6-diphenyltetrahydro-4-pyrone-

3,5-dicarboxylic acid (0.01 mole), were treated with HCHO and amines in the same manner as for I-III to form derivs. (IX) of

2,4-diphenyl-3-oxa-7-

azabicyclo[3.3.1]nonan-9-one. IX prepd. were [R1, R2, % yield, m.p. (EtOH) given]: Et, allyl, 72, 131-2.degree.; Et, PhCH2, 57, 129.degree.; Me, 2-pyridylmethyl, 54, 181-3.degree.; Et, 2-pyridylmethyl, 49, 161.degree.. Derivs. (X) of 2,4-di(2-pyridyl)-3-thia-7azabicyclo[3.3.1]nonan-9-one were similarly prepd., starting with the Me or Et esters of 1-thia-2,6-di(2-pyridyl)cyclohexan-4-one-3,5-dicarboxylic acid (CA 63, 5613h). X prepd. (identification same as IX) were: Me, 2-pyridylmethyl, 37, 185.degree. (decompn.) (EtOH-H2O, 2:1); Et, 2-pyridylmethyl, 35,193.degree. (decompn.) (EtOH-H2O, 2:1). A soln. of 0.7 g. Co(NO3)2.6H2O in 20 ml. EtOH was added to a hot soln. of Ia in 40 ml. EtOH and the mixt. heated 10 min. on a steam bath; the pptd. Co chelate was only slightly sol. in H2O, practically insol. in org. solvents, dimethylformamide, and dimethyl sulfoxide, decompd. 230-5.degree., yield 70%. A hot soln. of 0.6 g. KSCN and 0.6 g. MnCl2.4H2O in 30 ml. EtOH was heated on a steam bath; the pptd. KCl was filtered off, and the soln. mixed with 1 g. Ia in 40 ml. EtOH, and heated 5 min. After several hrs. standing, yellow-gold crystals of the Ia-Mn-(SCN)2 chelate pptd., 82%, decompd. 185.degree. Am. 200.degree.. IV-VI were characterized by ir spectra as enol forms; the structures of the I-III series of compds. were confirmed by N.M.R.

- IT 4728-47-6, 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 7-benzyl-9-oxo-3-phenyl-2,4-di-2-pyridyl-, diethyl ester (prepn. of)
- RN 4728-47-6 CAPLUS
- CN 3,7-Diazabicyclo[3.3.1]nonane-1,5-dicarboxylic acid, 7-benzyl-9-oxo-3-phenyl-2,4-di-2-pyridyl-, diethyl ester (7CI, 8CI) (CA INDEX NAME)

ANSWER 27 OF 28 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1965:480662 CAPLUS

DOCUMENT NUMBER:

63:80662

ORIGINAL REFERENCE NO.:

63:14864a-e

TITLE:

Synthesis of 1,5-diphenylbispidin-9-ones. VIII.

1,5-Diphenyl-3,7-dialkylbispidin-9-ones.

Asymmetrically substituted derivatives

AUTHOR(S):

Chiavarelli, S.; Toeffler, H. F.; Fennoy, L. V.;

Landi-Vittory, R.; Mazzeo, P.

CORPORATE SOURCE:

Ist. Super. Sanita, Rome

SOURCE:

Farmaco (Pavia), Ed. Sci. (1965), 20(6), 408-20

DOCUMENT TYPE:

Journal

LANGUAGE:

acetates.

Italian

GI For diagram(s), see printed CA Issue.

AB A series of asym. substituted 1,5-diphenyl-3,7-dialkylbispidin-9-ones (I) was prepd. from 1,3-diphenylacetone (II), paraformaldehyde (III), and acetates of primary alkylamines. An alc. soln. of 0.1 mole II, 0.4 mole III, 0.1 mole RNH2.AcOH, and 0.1 mole R'NH2.AcOH was refluxed 6-16 hrs., according to the employed amine. The reaction mixt. was cooled, dild. with an equal vol. H2O, alkalized to pH 8 with 20% Na2CO3, kept overnight,

filtered, and the ppt. crystd. if solid, or purified through the perchlorate, if liquid. The reaction product consisted of a mixt. of sym.

and asym. substituted I, not separable by crystn., but only by thin layer chromatography. The following I were prepd. and crystd. after chromatographic sepn. (R, R', m.p., and % yield given): Et, cyclohexyl, 132-3.degree., 43; Me, PhCH2, 132-4.degree., 48; Et, PhCH2, 129-31.degree., 44; Et, Ph(CH2)2, 131-3.degree., 50; Me, Et, 116-18.degree., 57; Et, Pr, 106-8.degree., 47; Et, iso-Pr, 140-2.degree., 41; Pr, iso-Pr, 126-8.degree., 37; Me, iso-Pr, 111-113.degree., 34. Rf and ir spectra of all the compds. are recorded. IX. 1,5-Diphenyl-3,7bis(hydroxyalkyl)- and 1,5-diphenyl-3,7-bis(methoxyalkyl)bispidin-9-ones, symmetric and asymmetric. S. Chiavarelli, H. F. Toeffler, R. Landi-Vittory, and P. Mazzeo. Ibid. 421-7. Sym. and asym. 1,5-diphenyl-3,7-bis(hydroxyalkyl)- and 1,5diphenyl-3,7-bis(methoxyalkyl)bispidin-9-ones (I) were prepd. by a general reaction from 1,3-diaryl-2-propanone, paraformaldehyde, and primary amine

A mixt. of 0.1 mole 1,3diphenyl-2-propanone, 0.4 mole paraformaldehyde, 0.1 mole RNH2.AcOH, and 0.1 mole R'NH2.AcOH in 100 ml. alc. was refluxed 6-42 hrs., according to the employed amine, cooled, dild. with equal vol. H2O, alkalized to pH 8-9 with 20% Na2CO3, kept overnight in the cold, filtered, and the ppt. crystd., if solid or purified through perchlorates and hydrochlorides, if liquid. The following sym. I were prepd. (salt, R = R', m.p., and % yield given): -, (CH2)20CH3, 90-1.degree., 71; -, (CH2)30CH3, 78-9.degree., 53; perchlorate 0.5-H2O, (CH2)30H, 94-6.degree. (anhyd. m. 148-9.degree.), 47; -, (CH3)2CCH2OH, 187-8.degree., 34; hydrochloride, (CH2)30H, 191-3.degree. (decompn.), 36; perchlorate, 3,4,5-trimethoxyphenethyl, 204-6.degree., 35. The asym. I were obtained (R, R', m.p., and % yield given): (CH2)2OCH3, CH2Ph, 101-3%, 42; (CH2) 30CH3, cyclopentanyl, 118-20.degree., 35. The ir spectra were reported. Also reported were the results of preliminary toxicological tests, which showed that the activity of I decreased rapidly with increasing of length of the substituent chain in the 3- and 7-position. 4208-17-7, 3,7-Diazabicyclo[3.3.1]nonan-9-one, ΙT 3-cyclohexyl-7-ethyl-1,5-diphenyl- 4208-32-6, 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3,7-dicyclohexyl-1,5-diphenyl-4478-45-9, 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3-cyclopentyl-7-(3-methoxypropyl)-1,5-diphenyl-(prepn. of) 4208-17-7 CAPLUS RN 3,7-Diazabicyclo[3.3.1]nonan-9-one, 3-cyclohexyl-7-ethyl-1,5-diphenyl-CN(7CI, 8CI) (CA INDEX NAME)

RN 4478-45-9 CAPLUS
CN 3,7-Diazabicyclo[3.3.1]nonan-9-one,
3-cyclopentyl-7-(3-methoxypropyl)-1,5-

Page 61 09864905.trn

diphenyl- (7CI, 8CI) (CA INDEX NAME)

ANSWER 28 OF 28 CAPLUS COPYRIGHT 2002 ACS

1965:90941 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 62:90941

ORIGINAL REFERENCE NO.: 62:16251g-h, 16252a

TITLE: Synthesis of 1,5-diphenylbispidin-9-ones. VII.

> Symmetrical 1,5-diphenyl-3,7-dialkylbispidones Chiavarelli, Stefano; Toeffler, Federico; Vittory,

AUTHOR(S): Rodolfo Landi; Mazzeo, Pietro

Ist. Super Sanita, Rome CORPORATE SOURCE:

SOURCE: Gazz. Chim. Ital. (1964), 94(10), 1021-7

DOCUMENT TYPE: Journal LANGUAGE: Italian

For diagram(s), see printed CA Issue. GΙ

cf. CA 56, 12900c. Correction of CA 62, 9135h. The title compds. (I) AΒ were obtained by the Mannich reaction on (PhCH2)2CO (II) and a primary or cycloalkylamine acetate in the presence of CH2O. Thus, 12.6 g. II, 7.2. g. CH2O, and 21 g. heptylamine acetate in 100 ml. MeOH refluxed 17 hrs. gave 45% I (R = C7H15) perchlorate, m. 122-4.degree. (MeOH). Similarly were obtained the following I (R, % yield, and m.p. given): C8H17, 51, --(HClO4 salt m. 116-18.degree.); iso-C8H17, 58, 89-91.degree.; C10H21, 38, -- (HClO4 salt m. 126-8.degree.); C17H35, 69, 67-8.degree.; C18H37,

56-8.degree.; cyclopentyl, 62, 156-8.degree..

ΙT 3168-98-7, 3,7-Diazabicyclo[3.3.1] nonan-9-one,

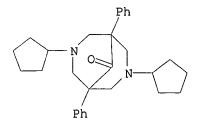
3,7-dicyclopentyl-1,5-diphenyl-

(prepn. of)

3168-98-7 CAPLUS RN

56.

3,7-Diazabicyclo[3.3.1]nonan-9-one, 3,7-dicyclopentyl-1,5-diphenyl- (7CI, CN 8CI) (CA INDEX NAME)



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